

FILE 'REGISTRY' ENTERED AT 16:27:42 ON 03 JUN 2009

L1 STRUCTURE UPLOADED

L2 0 S L1

L3 34 S L1 SSS FULL

FILE 'HCAPLUS' ENTERED AT 16:29:19 ON 03 JUN 2009

L4 11 S L3

=> file registry
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.22	0.22

FILE 'REGISTRY' ENTERED AT 16:27:42 ON 03 JUN 2009
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STRUCTURE FILE UPDATES: 2 JUN 2009 HIGHEST RN 1151889-97-2
DICTIONARY FILE UPDATES: 2 JUN 2009 HIGHEST RN 1151889-97-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

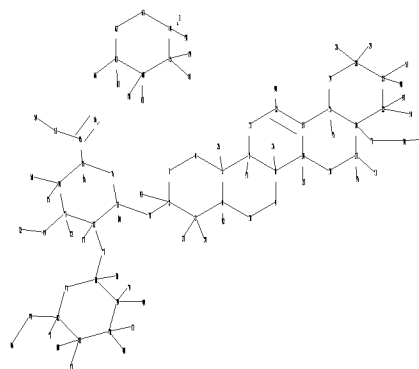
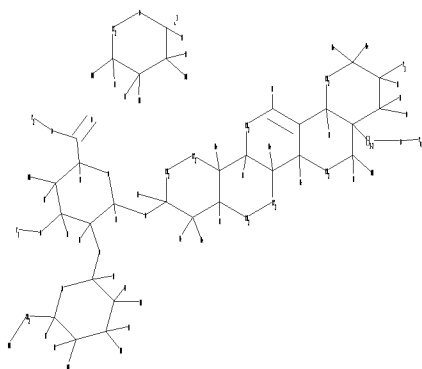
TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>
Uploading C:\Program Files\STNEXP\Queries\10580805generic2.str



chain nodes :

23 24 25 26 27 28 29 30 37 44 45 46 47 48 49 50 51 53 54 56 57
59 66 67 68 69 72 73 74 76 77 78 79 80 81 82 83 84 85 86 87 88
89 90 91
92 93 94 95 96 97 98

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 31
32 33 34 35 36 38 39 40 41 42 43 60 61 62 63 64 65

chain bonds :

1-23 1-24 2-30 2-91 5-25 6-92 7-93 8-26 12-94 14-27 15-95 16-73 17-51
17-96 20-28 20-29 21-53 21-98 22-54 22-97 30-31 31-84 32-37 32-83 33-69
33-82 34-50
34-85 35-45 35-86 37-38 38-78 39-49 39-79 40-48 40-81 41-47 41-80 42-44
42-77 44-46
45-56 45-57 57-59 60-67 60-88 61-66 61-87 64-90 65-68 65-89 69-72 73-74
74-76

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 7-11 8-9 8-14 9-10 11-12 12-13
13-14 13-15 14-18 15-16 15-19 16-17 16-22 17-18 19-20 20-21 21-22 31-32
31-36 32-33

33-34 34-35 35-36 38-39 38-43 39-40 40-41 41-42 42-43 60-61 60-65 61-62
62-63 63-64
64-65
exact/norm bonds :
1-2 1-6 2-3 2-30 3-4 4-5 5-6 5-7 6-10 7-8 7-11 8-9 8-14 9-10 11-12
12-13 13-14 13-15 14-18 15-16 15-19 16-17 16-22 17-18 17-51 19-20 20-21
21-22 21-53
22-54 30-31 31-32 31-36 32-33 32-37 33-34 33-69 34-35 34-50 35-36 37-38
38-39 38-43 39-40
39-49 40-41 40-48 41-42 41-47 42-43 45-56 45-57 57-59 60-61 60-65 60-67
61-62 61-66
62-63 63-64 64-65 65-68 69-72 73-74 74-76
exact bonds :
1-23 1-24 2-91 5-25 6-92 7-93 8-26 12-94 14-27 15-95 16-73 17-96 20-28
20-29 21-98 22-97 31-84 32-83 33-82 34-85 35-45 35-86 38-78 39-79 40-81
41-80 42-44
42-77 44-46 60-88 61-87 64-90 65-89

G1:H,O, [*1]

G2:H,CH3,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu,Ph

G3:H, [*1]

G4:C,H

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom
22:Atom 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 29:CLASS
30:CLASS 31:Atom 32:Atom
33:Atom 34:Atom 35:Atom 36:Atom 37:CLASS 38:Atom 39:Atom 40:Atom 41:Atom
42:Atom
43:Atom 44:CLASS 45:CLASS 46:CLASS 47:CLASS 48:CLASS 49:CLASS 50:CLASS
51:CLASS 53:CLASS
54:CLASS 56:CLASS 57:CLASS 59:CLASS 60:Atom 61:Atom 62:Atom 63:Atom 64:Atom
65:Atom 66:CLASS
67:CLASS 68:CLASS 69:CLASS 72:CLASS 73:CLASS 74:CLASS 76:CLASS 77:CLASS
78:CLASS 79:CLASS
80:CLASS 81:CLASS 82:CLASS 83:CLASS 84:CLASS 85:CLASS 86:CLASS 87:CLASS
88:CLASS 89:CLASS
90:CLASS 91:CLASS 92:CLASS 93:CLASS 94:CLASS 95:CLASS 96:CLASS 97:CLASS
98:CLASS

L1 STRUCTURE UPLOADED

=> s l1

SAMPLE SEARCH INITIATED 16:28:12 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 382 TO ITERATE

100.0% PROCESSED 382 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 6468 TO 8812

PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> d l1

L1 HAS NO ANSWERS

L1 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss full

FULL SEARCH INITIATED 16:29:11 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 7647 TO ITERATE

100.0% PROCESSED 7647 ITERATIONS

34 ANSWERS

SEARCH TIME: 00.00.01

L3 34 SEA SSS FUL L1

=> file hcaplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

186.84

187.06

FILE 'HCAPLUS' ENTERED AT 16:29:19 ON 03 JUN 2009

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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FILE COVERS 1907 - 3 Jun 2009 VOL 150 ISS 23

FILE LAST UPDATED: 2 Jun 2009 (20090602/ED)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2009

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2009

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3

L4 11 L3

=> d 14 1-11 ti abs bib hitstr

L4 ANSWER 1 OF 11 HCAPLUS COPYRIGHT 2009 ACS on STN
TI Phenolic compounds and rare polyhydroxylated triterpenoid saponins from
Eryngium yuccifolium
AB Phytochem. investigation on the whole plant of Eryngium yuccifolium
resulted in the isolation and identification of three phenolic compds.
(1-3) and 12 polyhydroxylated triterpenoid saponins, named eryngiosides
A-L (4-15), together with four known compds.
kaempferol-3-O-(2,6-di-O-trans-p-coumaroyl)- β -D-glucopyranoside (16),
caffeic acid (17), 21 β -angeloyloxy-3 β -[β -D-glucopyranosyl-
(1 \rightarrow 2)]-[β -D-xylopyranosyl-(1 \rightarrow 3)]- β -D-
glucuronopyranosyloxyolean-12-ene-15 α ,16 α ,22 α ,28-tetrol
(18), and saniculasaponin III (19). This study reports the isolation of
these compds. and their structural elucidation by extensive spectroscopic
analyses and chemical degradation
AN 2008:785878 HCAPLUS <<LOGINID::20090603>>
DN 149:171225
TI Phenolic compounds and rare polyhydroxylated triterpenoid saponins from
Eryngium yuccifolium
AU Zhang, Zhizhen; Li, Shiyu; Ownby, Stacy; Wang, Ping; Yuan, Wei; Zhang,
Wanli; Beasley, R. Scott
CS National Center for Pharmaceutical Crops, Arthur Temple College of
Forestry and Agriculture, Stephen F. Austin State University, Nacogdoches,
TX, 75962-6109, USA
SO Phytochemistry (Elsevier) (2008), 69(10), 2070-2080
CODEN: PYTCAS; ISSN: 0031-9422
PB Elsevier Ltd.
DT Journal
LA English
IT 1039557-69-1P, Eryngioside F 1039557-74-8P, Eryngioside
K 1039557-75-9P, Eryngioside L
RL: BSU (Biological study, unclassified); NPO (Natural product
occurrence); PRP (Properties); PUR (Purification or recovery); BIOL
(Biological study); OCCU (Occurrence); PREP (Preparation)
(phenolic compds. and rare polyhydroxylated triterpenoid saponins from
Eryngium yuccifolium)
RN 1039557-69-1 HCAPLUS
CN β -D-Glucopyranosiduronic acid,
(3 β ,16 α ,21 β ,22 α)-16,21,28-trihydroxy-22-[[(2Z)-2-
methyl-1-oxo-2-buten-1-yl]oxy]olean-12-en-3-yl
O- β -D-glucopyranosyl-(1 \rightarrow 2)-O-[β -D-xylopyranosyl-
(1 \rightarrow 3)]- (CA INDEX NAME)

L4 ANSWER 2 OF 11 HCAPLUS COPYRIGHT 2009 ACS on STN
TI Composition comprising triterpene saponins and compounds with angeloyl
functional group, methods for preparing same and uses thereof
AB This invention provides a compound comprising a triterpenoidal saponin,
triterpenoid, triterpenoidal compound or saponenin, comprising at least two
side groups selected from the group consisting of: angeloyl groups,
tigloyl groups and seneciroyl groups, wherein the side groups are attached
to carbon 21, 22 or/and 28 of triterpenoidal saponin, triterpenoid,
triterpenoidal compound or saponenin backbone. This invention provides a
composition for inhibiting tumor cell growth, comprising an appropriate amount
of
a triterpenoidal saponin, triterpenoid, triterpenoidal compound or
saponenin, wherein the triterpenoidal saponin, triterpenoid,
triterpenoidal compound or saponenin comprises any two side groups selected
from the group consisting of: angeloyl groups, tigloyl groups and
seneciroyl groups, wherein the side groups are attached to carbon 21, 22

or/and 28 of triterpenoidal saponin, triterpenoid, triterpenoidal compound
or saponenin backbone.

AN 2006:493929 HCAPLUS <<LOGINID::20090603>>

DN 145:1004

TI Composition comprising triterpene saponins and compounds with angeloyl
functional group, methods for preparing same and uses thereof

IN Chan, Pui-Kwong; Mak, May Sung; Wang, Yun

PA USA

SO U.S. Pat. Appl. Publ., 46 pp., Cont.-in-part of U.S. Ser. No. 131,551
CODEN: USXXCO

DT Patent

LA English

FAN.CNT 13

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	US 20060111310	A1	20060525	US 2005-267523	20051104
	WO 2005037200	A2	20050428	WO 2004-US33359	20041008
	WO 2005037200	A3	20050616		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
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	WO 2005063273	A1	20050714	WO 2004-US43465	20041223
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	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 20050220910	A1	20051006	US 2005-906303	20050214
	US 7524824	B2	20090428		
	US 20050276872	A1	20051215	US 2005-117760	20050427
	US 20050277601	A1	20051215	US 2005-131551	20050517
	US 7262285	B2	20070828		
	WO 2006029221	A2	20060316	WO 2005-US31900	20050907
	WO 2006029221	A3	20070412		
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	US 20060122129	A1	20060608	US 2005-289142	20051128

US 7488753 B2 20090210
 WO 2006116656 A2 20061102 WO 2006-US16158 20060427
 WO 2006116656 A3 20070215
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 KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX,
 MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE,
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 VN, YU, ZA, ZM, ZW
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
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 CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
 GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
 KG, KZ, MD, RU, TJ, TM
 US 20060263458 A1 20061123 US 2006-412659 20060427
 EP 1876896 A2 20080116 EP 2006-751723 20060427
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 IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR
 US 20090041877 A1 20090212 US 2008-195112 20080820
 PRAI US 2003-509851P P 20031009
 US 2003-532101P P 20031223
 US 2004-607858P P 20040907
 US 2004-613811P P 20040927
 US 2004-617379P P 20041008
 WO 2004-US33359 A2 20041008
 WO 2004-US43465 A2 20041223
 US 2005-906303 A2 20050214
 US 2005-117760 A2 20050427
 US 2005-675282P P 20050427
 US 2005-675284P P 20050427
 US 2005-131551 A2 20050517
 WO 2005-US31900 A2 20050907
 US 2001-944805 A2 20010831
 WO 2002-IB4750 W 20020828
 US 2003-471384 A2 20030904
 US 2005-117745 A2 20050427
 US 2005-267523 A2 20051104
 US 2005-289142 A 20051128
 US 2006-412659 A1 20060427
 WO 2006-US16158 W 20060427
 OS MARPAT 145:1004
 IT 852361-60-5
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)
 (composition comprising triterpene saponins and compds. with angeloyl
 functional group for treatment of cancer and other diseases)
 RN 852361-60-5 HCAPLUS
 CN β -D-Glucopyranosiduronic acid,
 (3 β ,16 α ,21 β ,22 α)-16,28-dihydroxy-21,22-bis[[(2Z)-2-
 methyl-1-oxo-2-butenyl]oxy]olean-12-en-3-yl 2-O- β -D-galactopyranosyl-
 (9CI) (CA INDEX NAME)

 L4 ANSWER 3 OF 11 HCAPLUS COPYRIGHT 2009 ACS on STN
 TI Novel analgesic compounds, extracts containing same and methods of
 preparation
 AB Various compds. are obtained from plants of the Barringtonia species which
 are derived from barringtoside A and barringtoside C as precursor compds.

which especially have an arabinopyranosyl substituent at the 21 position which may optionally be further substituted with benzoyl, dibenzoyl, Me butanoyl, Me butyryl or tigloyl at the 3 or 4 positions. Alternatively at the 21 position there is provided tigloyl, benzoyl or dibenzoyl substituents. Various barringtonside derivs. were obtained from aqueous exts. of *B. acutangula* dried bark and their analgesic efficacy was shown in rats hind paw.

AN 2005:493616 HCAPLUS <<LOGINID::20090603>>

DN 143:48023

TI Novel analgesic compounds, extracts containing same and methods of preparation

IN Quinn, Ronald; Mills, Clive

PA Griffith University, Australia; Jarlmadangah Buru Aboriginal Corporation

SO PCT Int. Appl., 103 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2005051969	A1	20050609	WO 2004-AU1660	20041126
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	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2004293125	A1	20050609	AU 2004-293125	20041126
	CA 2547311	A1	20050609	CA 2004-2547311	20041126
	EP 1687320	A1	20060809	EP 2004-797102	20041126
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				
	CN 1938326	A	20070328	CN 2004-80039602	20041126
	JP 2007512258	T	20070517	JP 2006-540096	20041126
	IN 2006CN01851	A	20070608	IN 2006-CN1851	20060526
	US 20070270375	A1	20071122	US 2007-580805	20070316
PRAI	AU 2003-906558	A	20031127		
	WO 2004-AU1660	W	20041126		

OS MARPAT 143:48023

IT 849637-45-2 849637-46-3 849637-47-4
849818-09-3 849818-13-9 849818-20-8
849818-23-1 849818-26-4 853306-55-5
853306-59-9 853306-60-2 853306-62-4
853308-40-4 853308-41-5 853308-42-6
853308-43-7 853308-44-8

RL: NPO (Natural product occurrence); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); USES (Uses)
(novel analgesic compds., exts. containing same and methods of preparation)

RN 849637-45-2 HCAPLUS

CN β -D-Glucopyranosiduronic acid,
(3 β , 16 α , 21 β , 22 α)-21, 22-bis(benzoyloxy)-16, 28-dihydroxyolean-12-en-3-yl O- β -D-galactopyranosyl-(1 \rightarrow 2)-O-[β -D-xylopyranosyl-(1 \rightarrow 3)]-, methyl ester (9CI) (CA INDEX NAME)

L4 ANSWER 4 OF 11 HCAPLUS COPYRIGHT 2009 ACS on STN
 TI Haemolytic acylated triterpenoid saponins from *Harpullia austro-caledonica*
 AB Eight new acylated triterpenoid saponins were isolated from the stem bark of *Harpullia austro-caledonica* along with the known harpuloside (9). Their structures were established using 1D and 2D NMR and mass spectrometry as 3-O- β -D-galactopyranosyl-(1 \rightarrow 2)- β -D-glucuronopyranosyl-21 β , 22 α -di-O-angeloylbarringtonenol C (1), 3-O- α -L-rhamnopyranosyl-(1 \rightarrow 3)-[β -D-galactopyranosyl-(1 \rightarrow 2)]- β -D-glucuronopyranosyl-21 β , 22 α -di-O-angeloyl barringtonenol C (2), 3-O- α -L-arabinofuranosyl-(1 \rightarrow 3)-[β -D-galactopyranosyl-(1 \rightarrow 2)]- β -D-glucuronopyranosyl-21 β , 22 α -di-O-angeloylbarringtonenol C (3), 3-O- α -L-arabinofuranosyl-(1 \rightarrow 2)- β -D-glucuronopyranosyl-21 β , 22 α -di-O-angeloylprotoaescigenin (4), 3-O- α -L-arabinofuranosyl-(1 \rightarrow 3)-[α -L-arabinofuranosyl-(1 \rightarrow 2)]- β -D-glucuronopyranosyl-21 β , 22 α -di-O-angeloyl protoaescigenin (5), 3-O- α -L-arabinofuranosyl-(1 \rightarrow 3)-[β -D-xylopyranosyl-(1 \rightarrow 2)]- β -D-glucuronopyranosyl-21 β , 22 α -di-O-angeloylprotoaescigenin (6), 3-O- α -L-arabinofuranosyl-(1 \rightarrow 3)-[β -D-glucopyranosyl-(1 \rightarrow 2)]- β -D-glucuronopyranosyl-21 β , 22 α -di-O-angeloylprotoaescigenin (7), 3-O- β -D-xylopyranosyl-(1 \rightarrow 2)- β -D-glucuronopyranosyl-21 β , 22 α -di-O-angeloylprotoaescigenin (8). The EtOH extract of the stem bark showed in vitro cytotoxic activity against KB cells (90% at 10 μ g/mL). At a concentration of 5 μ g/mL, the saponin mixture showed hemolytic activity and caused 100% hemolysis of a 10% suspension of sheep erythrocytes.
 AN 2005:265703 HCAPLUS <<LOGINID::20090603>>
 DN 143:4146
 TI Haemolytic acylated triterpenoid saponins from *Harpullia austro-caledonica*
 AU Voutquenne, Laurence; Guinot, Pauline; Froissard, Clement; Thoison, Odile; Litaudon, Marc; Lavaud, Catherine
 CS Laboratoire de Pharmacognosie, IFR 53 Biomolécules, FRE CNRS 2715, Reims, 51097, Fr.
 SO Phytochemistry (Elsevier) (2005), 66(7), 825-835
 CODEN: PYTCAS; ISSN: 0031-9422
 PB Elsevier B.V.
 DT Journal
 LA English
 IT 852361-60-5P
 RL: BSU (Biological study, unclassified); NPO (Natural product occurrence); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
 (hemolytic acylated triterpenoid saponins from *Harpullia austrocaledonica*)
 RN 852361-60-5 HCAPLUS
 CN β -D-Glucopyranosiduronic acid,
 (3 β , 16 α , 21 β , 22 α)-16, 28-dihydroxy-21, 22-bis[[(2Z)-2-methyl-1-oxo-2-butenyl]oxy]olean-12-en-3-yl 2-O- β -D-galactopyranosyl-(9CI) (CA INDEX NAME)

RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 11 HCAPLUS COPYRIGHT 2009 ACS on STN
 TI Acutangulosides A-F, monodesmosidic saponins from the bark of *Barringtonia*

acutangula

AB Nine triterpene saponins, acutangulosides A-F, acutanguloside D-F Me esters, and a single triterpene aglycon were isolated from a water extract of the bark of *Barringtonia acutangula*. Their structures were assigned on the basis of spectroscopic data.

AN 2005:128141 HCAPLUS <<LOGINID::20090603>>

DN 142:389142

TI Acutangulosides A-F, monodesmosidic saponins from the bark of *Barringtonia acutangula*

AU Mills, Clive; Carroll, Anthony R.; Quinn, Ronald J.

CS Natural Product Discovery, Eskitis Institute, Griffith University, Brisbane, 4111, Australia

SO Journal of Natural Products (2005), 68(3), 311-318
CODEN: JNPRDF; ISSN: 0163-3864

PB American Chemical Society

DT Journal

LA English

IT 849637-45-2, Acutanguloside D methyl ester 849637-46-3, Acutanguloside E methyl ester 849637-47-4, Acutanguloside F methyl ester 849818-06-0, Acutanguloside A 849818-09-3, Acutanguloside B 849818-13-9, Acutanguloside C 849818-20-8, Acutanguloside D 849818-23-1, Acutanguloside E 849818-26-4, Acutanguloside F
RL: BSU (Biological study, unclassified); BIOL (Biological study) (saponins from bark of *Barringtonia acutangula*)

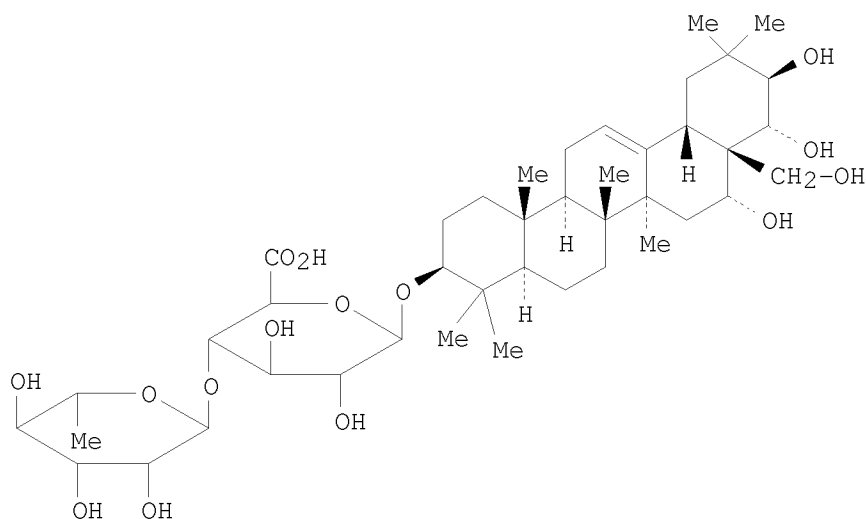
RN 849637-45-2 HCAPLUS

CN β -D-Glucopyranosiduronic acid, (3 β , 16 α , 21 β , 22 α)-21, 22-bis(benzoyloxy)-16, 28-dihydroxyolean-12-en-3-yl O- β -D-galactopyranosyl-(1 \rightarrow 2)-O-[β -D-xylopyranosyl-(1 \rightarrow 3)]-, methyl ester (9CI) (CA INDEX NAME)

L4 ANSWER 6 OF 11 HCAPLUS COPYRIGHT 2009 ACS on STN

TI Acylated triterpenoid saponins from the stem bark of *Foetidia africana*

GI

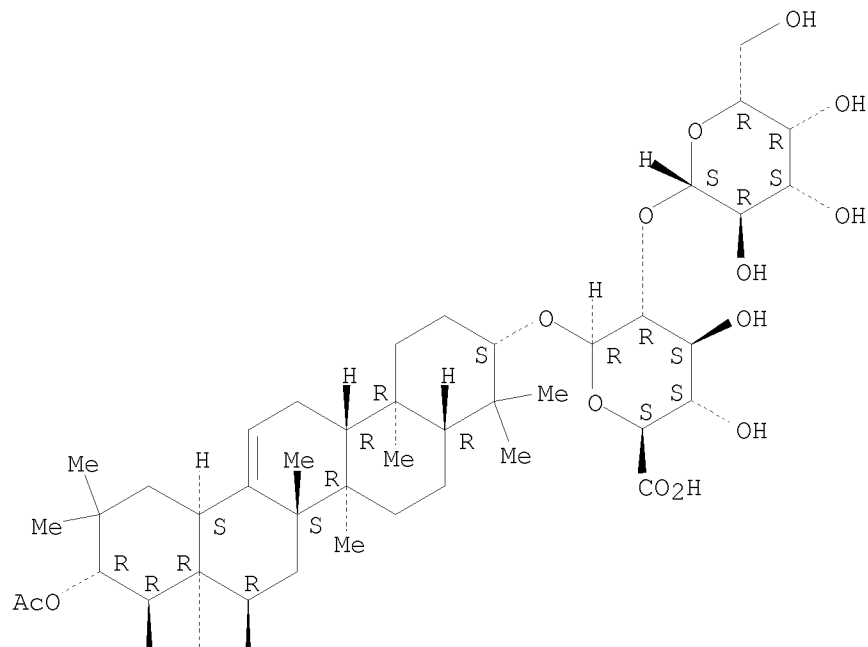


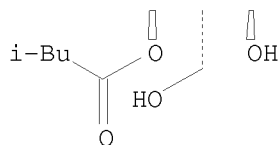
AB Nine new acylated triterpenoid saponins (e.g. I) were isolated from the stem bark of *Foetidia africana*. They all possess barringtogenol C as the aglycon, esterified by acetic and/or isovaleric acids. The sugar chain consists of up to three units: D-glucuronic acid (GlcUA) linked to C-3 of the aglycon and substituted by D-galactose (Gal) (at GlcUA C-2) and/or L-rhamnose (Rha) (at GlcUA C-4). The structures were established by acid and alkaline hydrolysis, by NMR expts. including 1H-1H (COSY, HOHAHA, ROESY) and 1H-13C (HSQC, HMBC) spectroscopy, and by mass spectrometry (ESIMS, ESIMSn).

AN 2002:691707 HCAPLUS <<LOGINID::20090603>>
 DN 137:349281
 TI Acylated triterpenoid saponins from the stem bark of *Foetidia africana*
 AU Crublet, Marie-Laure; Pouny, Isabelle; Delaude, Clement; Lavaud, Catherine
 CS Laboratoire de Pharmacognosie, UMR 6013 CNRS, Reims, 51097, Fr.
 SO Journal of Natural Products (2002), 65(11), 1560-1567
 CODEN: JNPRDF; ISSN: 0163-3864
 PB American Chemical Society
 DT Journal
 LA English
 IT 474967-20-9P 474967-21-0P
 RL: NPO (Natural product occurrence); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
 (acylated triterpenoid saponins from *Foetidia africana*)
 RN 474967-20-9 HCAPLUS
 CN β -D-Glucopyranosiduronic acid,
 (3 β , 16 α , 21 β , 22 α)-21-(acetyloxy)-16, 28-dihydroxy-22-
 (3-methyl-1-oxobutoxy)olean-12-en-3-yl 2-O- β -D-galactopyranosyl-
 (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

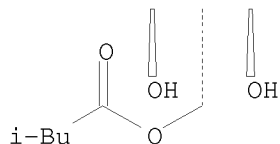
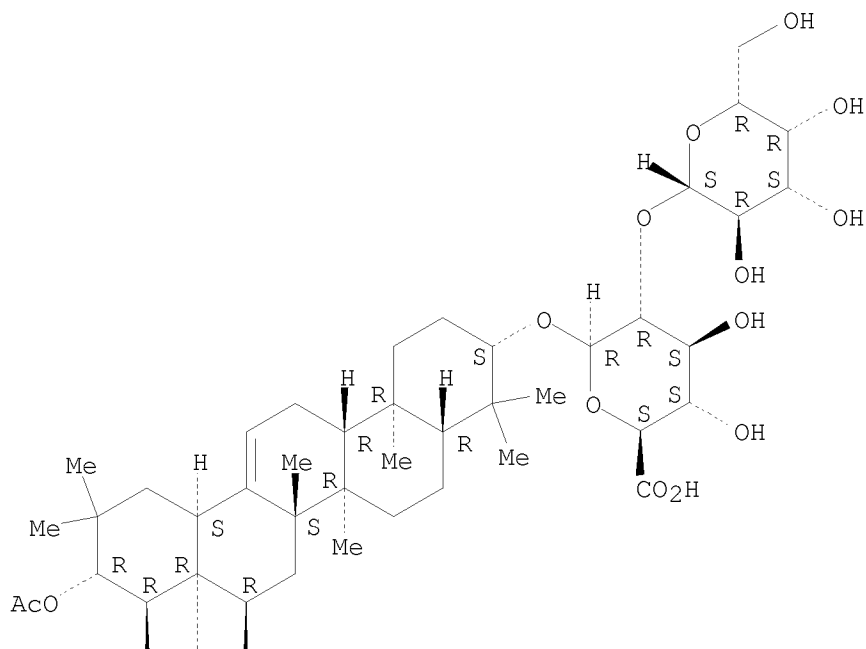
PAGE 1-A





RN 474967-21-0 HCAPLUS
 CN β -D-Glucopyranosiduronic acid,
 (3 β , 16 α , 21 β , 22 α)-21-(acetyloxy)-16, 22-dihydroxy-28-
 (3-methyl-1-oxobutoxy)olean-12-en-3-yl 2-O- β -D-galactopyranosyl-
 (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



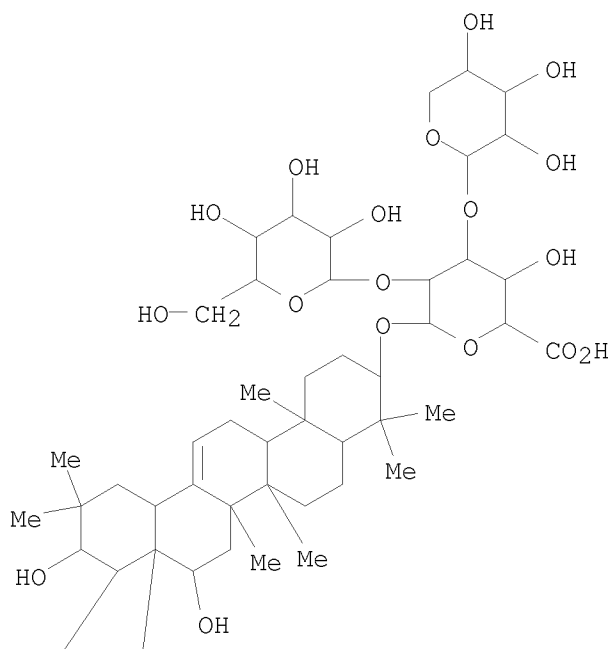
RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 11 HCAPLUS COPYRIGHT 2009 ACS on STN
 TI Triterpenoid saponins from *Berneuxia thibetica*
 AB Four triterpenoid saponins were isolated from *Berneuxia thibetica*. On the basis of chemical and spectroscopic evidence, three new saponins, *berneuxia* saponins A, B and C, were elucidated as 21-O-tigloylbarringtogenol C 3-O-{ α -L-rhamnopyranosyl(1 \rightarrow 2)- β -D-galactopyranosyl(1 \rightarrow 3)[β -D-glucopyranosyl(1 \rightarrow 2)- β -D-glucuronopyranoside]}, 28-O-tigloylbarringtogenol C 3-O-{ α -L-rhamnopyranosyl(1 \rightarrow 2)- β -D-galactopyranosyl(1 \rightarrow 3)[β -D-glucopyranosyl(1 \rightarrow 2)- β -D-glucuronopyranoside]}, and 16 α -28-dihydroxyolean-12-en-21-one 3 β -O-{ α -L-rhamnopyranosyl(1 \rightarrow 2)- β -D-galactopyranosyl(1 \rightarrow 3)[β -D-glucopyranosyl(1 \rightarrow 2)- β -D-glucuronopyranoside]}, resp. The fourth compound isolated was the known saponin, desacyljegosaponin.
 AN 1998:549504 HCAPLUS <<LOGINID::20090603>>
 DN 129:287800
 OREF 129:58585a,58588a
 TI Triterpenoid saponins from *Berneuxia thibetica*
 AU Wang, Ming-Kui; Cai, Hong; Peng, Shu-Lin; Ding, Li-Sheng; Wu, Feng-E.; Cien, Yao-Zu
 CS Laboratory of Natural Materia Medica, Chengdu Institute of Biology, Chinese Academy of Sciences, Chengdu, 610041, Peop. Rep. China
 SO Phytochemistry (1998), 48(8), 1411-1414
 CODEN: PYTCAS; ISSN: 0031-9422
 PB Elsevier Science Ltd.
 DT Journal
 LA English
 IT 214216-46-3P, 21-O-Tigloylbarringtogenol C
 3-O-[β -D-glucopyranosyl(1 \rightarrow 2)- β -D-glucuronopyranoside]
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (isolation and mol. structure of triterpenoid saponins from *Berneuxia thibetica*)
 RN 214216-46-3 HCAPLUS
 CN β -D-Glucopyranosiduronic acid,
 (3 β ,16 α ,21 β ,22 α)-16,22,28-trihydroxy-21-[[(2E)-2-methyl-1-oxo-2-butenyl]oxy]olean-12-en-3-yl 2-O- β -D-glucopyranosyl-
 (9CI) (CA INDEX NAME)

L4 ANSWER 8 OF 11 HCAPLUS COPYRIGHT 2009 ACS on STN
 TI Saponins from *Hacquetia epipactis*
 AB Four new estersaponins were isolated from *Hacquetia epipactis*. Using GC-MS, FAB-MS and various 2D-NMR techniques they were identified as 3-O-{ β -D-glucopyranosyl-(1 \rightarrow 2)-[α -L-arabinopyranosyl-(1 \rightarrow 3)]- β -D-glucuronopyranosyl-(1 \rightarrow)}-21-acetyl-22-(2-methylbutyryl)-barringtogenol C (*hacquetiasaponin* 1), the corresponding 21-(2-acetoxy-2-methylbutyryl)-22-acetyl-derivative (*hacquetiasaponin* 2), 3-O-{ β -D-glucopyranosyl-(1 \rightarrow 2)-[α -L-arabinopyranosyl-(1 \rightarrow 3)]- β -D-glucuronopyranosyl-(1 \rightarrow)}-21-acetyl-22-(2-methylbutyryl)-R1-barrigenol (*hacquetiasaponin* 3) and its corresponding 21-(2-acetoxy-2-methylbutyryl)-22-acetyl-derivative (*hacquetiasaponin* 4).
 AN 1995:593765 HCAPLUS <<LOGINID::20090603>>
 DN 123:79647
 OREF 123:14107a,14110a
 TI Saponins from *Hacquetia epipactis*
 AU Burczyk, Jan; Reznicek, Gottfried; Baumgarten, Sabine; Hugh-Bloch, Martina; Jurenitsch, Johann; Schroder, Harald; Werz, Udo; Haslinger, Ernst
 CS Katedra Zaklad Farmakognozzji Fitochem., Slaska Akad. Medyczna, Sosnowiec, PL-41-200, Pol.

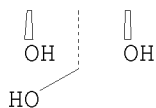
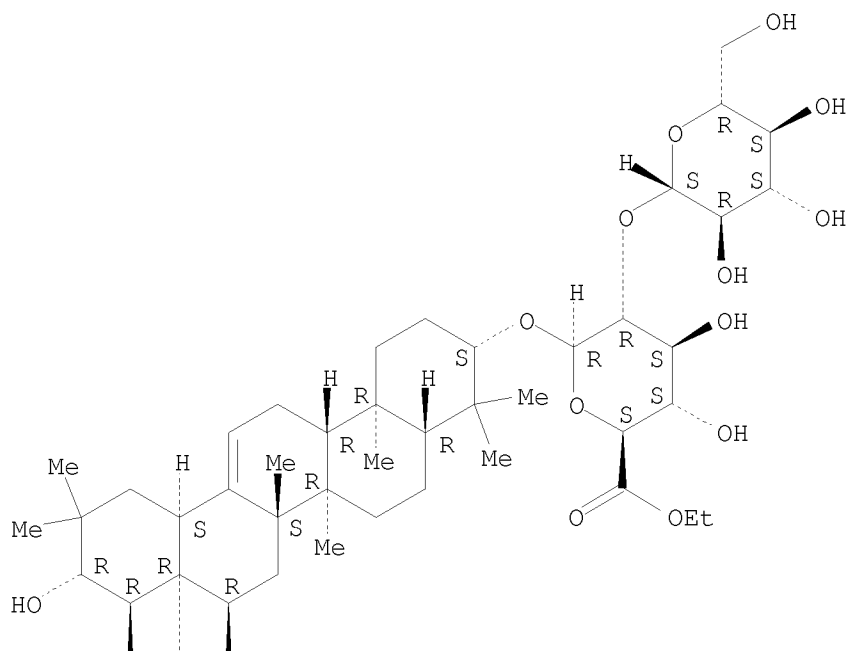
SO Phytochemistry (1995), 39(1), 195-8
 CODEN: PYTCAS; ISSN: 0031-9422
 PB Elsevier
 DT Journal
 LA English
 IT 165198-42-5P, Hacquetiasaponin 1 165198-43-6P,
 Hacquetiasaponin 2
 RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PRP
 (Properties); PUR (Purification or recovery); BIOL (Biological study);
 OCCU (Occurrence); PREP (Preparation)
 (saponins from Hacquetia epipactis)
 RN 165198-42-5 HCAPLUS
 CN β -D-Glucopyranosiduronic acid,
 (3 β , 16 α , 21 β , 22 α)-21-(acetyloxy)-16,28-dihydroxy-22-
 (2-methyl-1-oxobutoxy)olean-12-en-3-yl
 O- α -L-arabinopyranosyl-(1 \rightarrow 3)-O-[β -D-glucopyranosyl-
 (1 \rightarrow 2)]- (9CI) (CA INDEX NAME)

L4 ANSWER 9 OF 11 HCAPLUS COPYRIGHT 2009 ACS on STN
 TI Saponins from Barringtonia acutangula
 AB Three monodesmosidic glucuronide saponins of barringtogenol C, named
 barringtosides A, B and C have been isolated as their Me esters from the
 dried seeds of B. acutangula. On the basis of chemical and spectral
 evidence, the structures of these new saponins were elucidated to be as
 follows: barringtoside A, 3-O- β -D-xylopyranosyl(1 \rightarrow
 3)-[β -D-galactopyranosyl(\rightarrow 2)]- β -D-glucuronopyranosyl
 barringtogenol C; barringtoside B, 3-O- β -D-xylopyranosyl(1 \rightarrow
 3)-[β -D-galactopyranosyl(\rightarrow
 2)]- β -D-glucuronopyranosyl-21-O-tigloyl-28-O-isobutyryl
 barringtogenol C; barringtoside C, 3-O- α -L-arabinopyranosyl(1
 \rightarrow 3)-[β -D-galactopyranosyl(1 \rightarrow
 2)]- β -D-glucuronopyranosyl barringtogenol C.
 AN 1994:431097 HCAPLUS <<LOGINID::20090603>>
 DN 121:31097
 OREF 121:5669a,5672a
 TI Saponins from Barringtonia acutangula
 AU Pal, Bikas C.; Chaudhuri, Tirthankar; Yoshikawa, Kazuko; Arihara,
 Shigenobu
 CS Indian Inst. Chem. Biol., Calcutta, 700 032, India
 SO Phytochemistry (1994), 35(5), 1315-18
 CODEN: PYTCAS; ISSN: 0031-9422
 DT Journal
 LA English
 IT 155740-17-3, Barringtoside A 155740-18-4, Barringtoside
 B 155836-06-9, Barringtoside C
 RL: BIOL (Biological study)
 (from Barringtonia acutangula, isolation and structure of)
 RN 155740-17-3 HCAPLUS
 CN β -D-Glucopyranosiduronic acid,
 (3 β , 16 α , 21 β , 22 α)-16,21,22,28-tetrahydroxyolean-12-en-
 3-yl O- β -D-galactopyranosyl-(1 \rightarrow 2)-O-[β -D-xylopyranosyl-
 (1 \rightarrow 3)]- (9CI) (CA INDEX NAME)



L4 ANSWER 10 OF 11 HCAPLUS COPYRIGHT 2009 ACS on STN
 TI Saponin and sapogenol. X. Structures of jegosapogenin and
 desacyljegosaponin obtained from pericarps of *Styrax japonica*
 GI For diagram(s), see printed CA Issue.
 AB The structures of jegosapogenin obtained along with barringtogenol C and
 barringtogenol D by acid hydrolysis of the pericarps saponin of *S japonica*
 and of deacyljegosaponin, prepared by alkaline treatment of jegosaponin,
 were established as I and II on the basis of chemical and physiochem.
 evidence.
 AN 1975:564392 HCAPLUS <<LOGINID::20090603>>
 DN 83:164392
 OREF 83:25807a,25810a
 TI Saponin and sapogenol. X. Structures of jegosapogenin and
 desacyljegosaponin obtained from pericarps of *Styrax japonica*
 AU Kitagawa, Isao; Imakura, Yasuhiro; Hayashi, Teruaki; Yosioka, Itiro
 CS Fac. Pharm. Sci., Osaka Univ., Suita, Japan
 SO Chemical & Pharmaceutical Bulletin (1975), 23(7), 1520-31
 CODEN: CPBTAL; ISSN: 0009-2363
 DT Journal
 LA English
 IT 53829-34-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 53829-34-8 HCAPLUS
 CN β -D-Glucopyranosiduronic acid,
 (3 β , 16 α , 21 β , 22 α)-16, 21, 22, 28-tetrahydroxyolean-12-en-
 3-yl 2-O- β -D-glucopyranosyl-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



L4 ANSWER 11 OF 11 HCAPLUS COPYRIGHT 2009 ACS on STN
 TI Structure of desacyl-jegosaponin, a common desacyl derivative of
 jegosaponin isolated from pericarps of *Styrax japonica*
 GI For diagram(s), see printed CA Issue.
 AB The terpene glycoside, deacyljegosaponin, has the structure I, based on
 chemical and spectral data.
 AN 1974:536447 HCAPLUS <<LOGINID::20090603>>
 DN 81:136447
 OREF 81:21489a,21492a
 TI Structure of desacyl-jegosaponin, a common desacyl derivative of
 jegosaponin isolated from pericarps of *Styrax japonica*
 AU Kitagawa, Isao; Imakura, Yasuhiro; Hayashi, Teruaki; Yosioka, Itiro
 CS Fac. Pharm. Sci., Osaka Univ., Toyonaka, Japan
 SO Chemical & Pharmaceutical Bulletin (1974), 22(7), 1675-7
 CODEN: CPBTAL; ISSN: 0009-2363
 DT Journal
 LA English
 IT 53829-34-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 53829-34-8 HCAPLUS
 CN β -D-Glucopyranosiduronic acid,

(3 β , 16 α , 21 β , 22 α)-16, 21, 22, 28-tetrahydroxyolean-12-en-3-yl 2-O- β -D-glucopyranosyl-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

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